

ABSTRACT

The present invention provides biological fertilizer compositions that
5 comprise yeast cells and swine manure. The yeast cells of the invention have an enhanced
ability to fix atmospheric nitrogen, decompose phosphorus minerals and compounds,
decompose potassium minerals and compounds, decompose complex carbon compounds,
overproduce growth factors, overproduce ATP, decompose undesirable chemicals, suppress
growth of pathogenic microorganisms, or reduce undesirable odor. The biological fertilizer
10 composition of the invention can replace mineral fertilizers in supplying nitrogen,
phosphorus, and potassium to crop plants. Methods of manufacturing biological fertilizer
compositions, and methods of uses are also encompassed.

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